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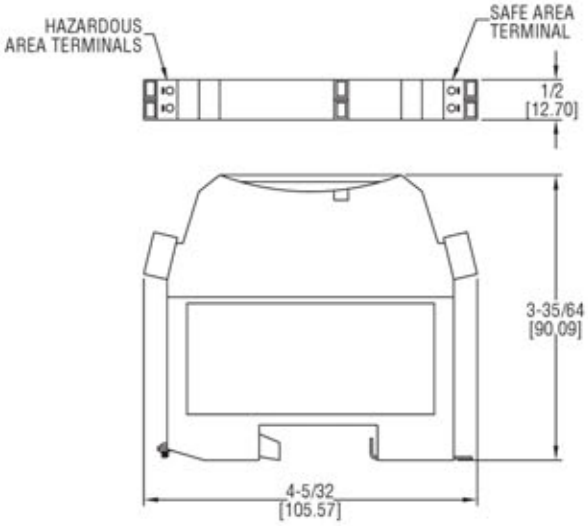
ENVIROMUX-ISZB

ZENER BARRIER

Intrinsically Safe Barriers for Hazardous Locations



The ENVIROMUX-ISZB Zener Barrier is an intrinsically safe shunt-diode barrier that can be used to communicate with and provide isolations for certain transmitters approved for use in hazardous areas. These barriers limit the amount of energy allowed to pass into the hazardous area, which inhibit ignition in flammable atmospheres.

FEATURES/BENEFITS

- Approved for use in hazardous areas

APPLICATIONS

- Electrically isolates pressure and level transmitters from unregulated circuits for intrinsically safe applications

FM			BASEEFA (ATEX)		
Group	µF	mH	Group	µF	mH
A & B	0.083	3.05	IIC	0.083	3.05

Region (Authority)	Standard	Approved For
USA (FM) (UL)	3600, 3610 entity 3611, 3810 UL698, UL913 UL1604	AIS/I,II,III/1/Entity ABCDEFG-SCI-942; NI/I/@/ABCD/T4 [I/0] AEx[ia]IIC-SCI-942 Entity; NI/1/2/IIC/T4; Ta=140°F (60°C)
Canada (CSA)	CAN/CSA E60070, IEC60079, C22.2	Class I, Div.2, Gps A, B, C, D; Ex nA [iA] IIC T4 Class I, Xone 2, Aex nA IIC T4
UK (BASEEFA)	EN 50014, EN 50020	EEx ia IIC
UK (BASEEFA) Systems	EN 50039	EEx ia IIC

SPECIFICATIONS

Transmitter Voltage: 16.2 V at 20 mA with 250 Ω load (negative w.r.t. earth); 11.0 V at 20 mA with 500 Ω load (negative w.r.t. earth).
Safe Area Output: 4 to 20 mA.
Load Resistance: 0 to 500 Ω.
Power Requirement: 20 to 35 VDC w.r.t. earth.
Accuracy: ±2 µA under all conditions.
LED Indicator: Green: Power indication.
Temperature Limits: Operating: -4 to 140°F (-20 to 60°C); Storage: -40 to 176°F (-40 to 80°C).
Humidity: 5 to 95% RH.
Terminals: Accommodate up to 2.5 mm2 stranded or single-core.
Safety Description: 28 µV, 300 Ω, 93 mA.
Weight: 4.9 oz (140 g).
Agency Approvals: See table.